

FIG. 1
(PRIOR ART)

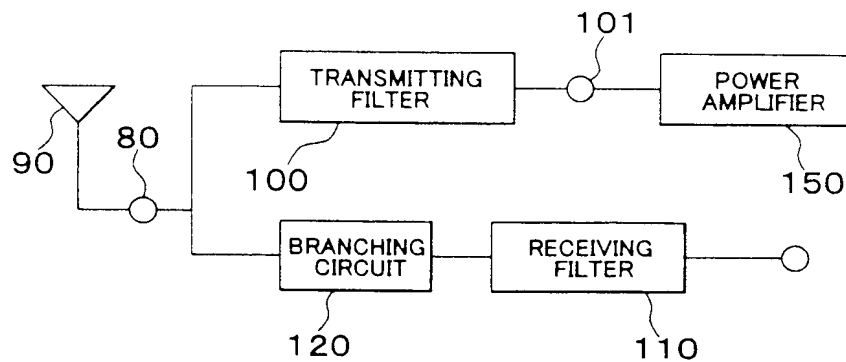


FIG. 2
(1st EMBODIMENT)

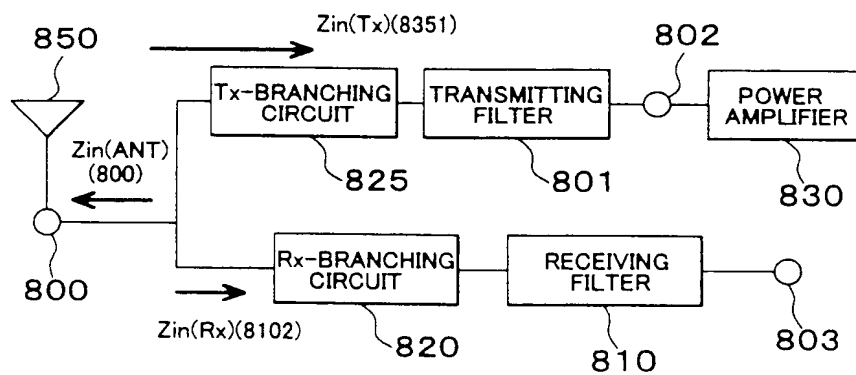


FIG. 3

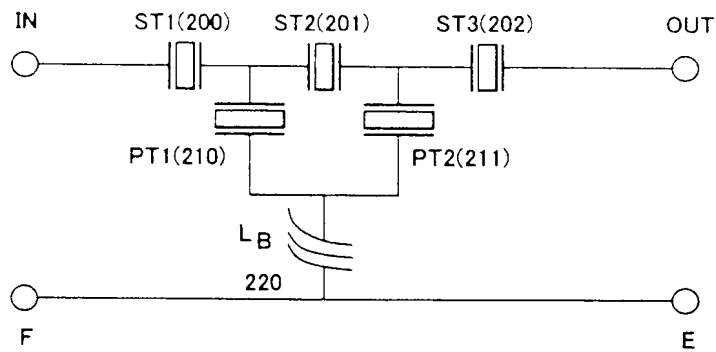


FIG. 4

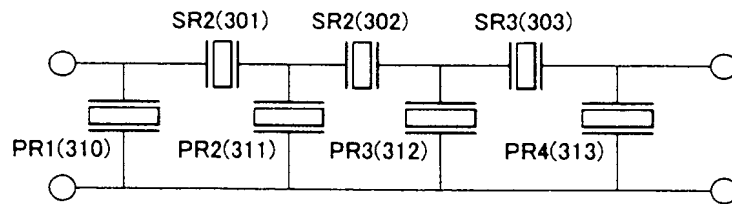


FIG. 5

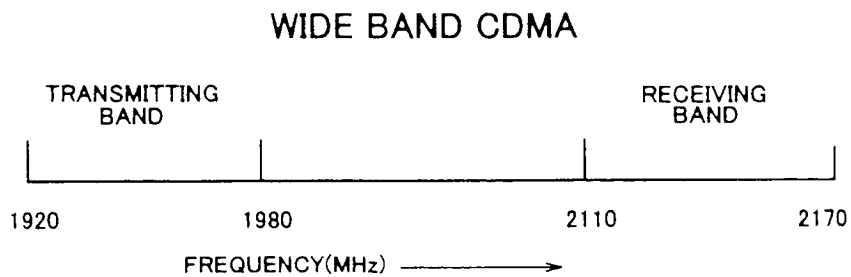


FIG. 6

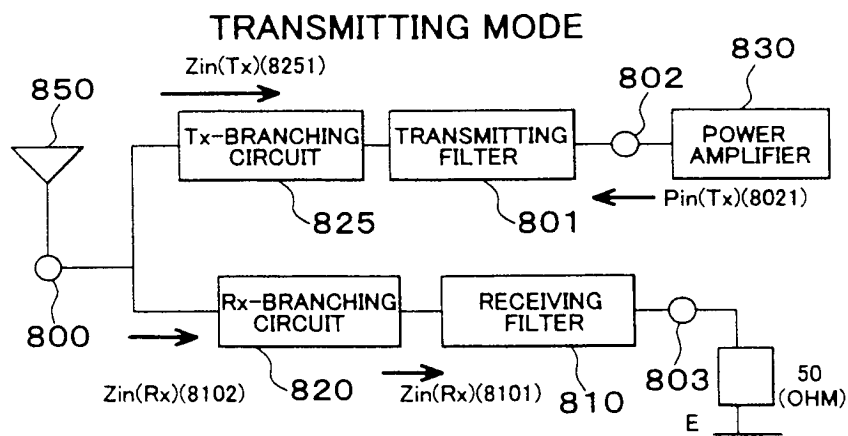


FIG. 7

RECEIVING MODE

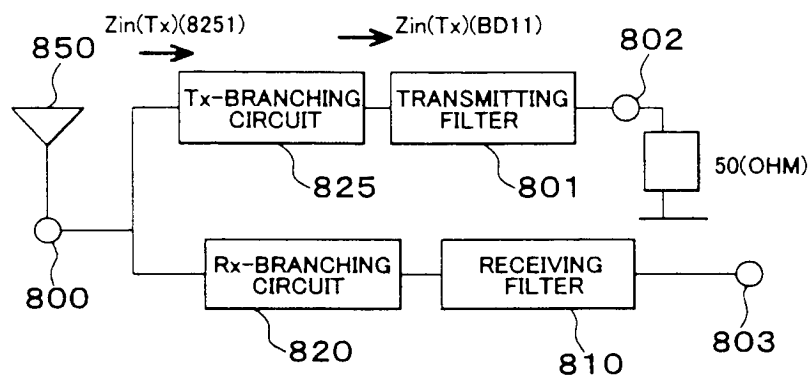


FIG. 8

CONSTRUCTION OF TRANSMITTING FILTER

	IDT(S0)	IDT(S1)	IDT(S2)	IDT(P0)	IDT(P1)	POLARIZED L 0.65(nH)
f00(MHz)	2216	2216	2216	2124	2124	
LPR	0.55	0.55	0.55	0.55	0.55	
CROSS LENGTH ω (μm)	40	20	40	42	42	
LOGARITHM	90	90	90	99	99	
REFLECTOR						
f00(MHz)	2216	2216	2216	2124	2124	
LPR	0.55	0.55	0.55	0.55	0.55	
QUANTITY	80	80	80	80	80	

FIG. 9

CONSTRUCTION OF RECEIVING FILTER

	IDT(S0)	IDT(S2)	IDT(S3)	IDT(P0)	IDT(P1)	IDT(P2)	IDT(P3)	POLARIZED L
f00(MHz)	2436	2436	2436	2340	2340	2340	2340	0.025(nH)
LPR	0.55	0.55	0.55	0.55	0.55	0.55	0.55	
$\omega(\mu\text{m})$	30	30	30	33	47	47	33	
LOGARITHM	80	80	80	70	99	99	70	
REFLECTOR								
f00(MHz)	2436	2436	2436	2340	2340	2340	2340	
LPR	0.55	0.55	0.55	0.55	0.55	0.55	0.55	
QUANTITY	80	80	80	80	80	80	80	

FIG. 10

ATTENUATION CHARACTERISTIC OF
 THE DUPLEXER

			TRANSMITTING FILTER														RECEIVING FILTER					
	Tx- BRANCHING	Rx- BRANCHING	1880 (MHz)	1910	1920	1940	1980	2075	2110	2170	1880	1940	1980	2025	2050	2110	2170					
PRIOR ART 1st EMBODIMENT	0	5.65(mm)	12.8	12	15	1.63	1.4	60	51	61.5	43.8	46.1	55.2	36	33.3	3.10	2.80					
	8.75(mm)	5.65(mm)	12.8	12	15	1.63	1.4	60	51	61.5	38.8	46	54.4	34.8	32.8	2.33	2.45					
	STANDERD		30	12	7	2	2	40	45	45	50	50	50	41	26	3	3					

FIG. 11

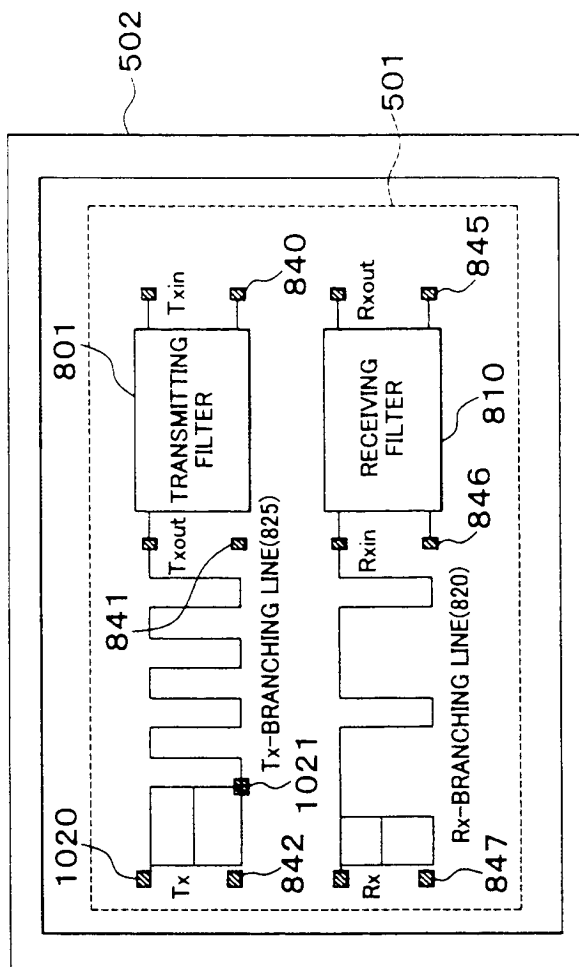


FIG. 12

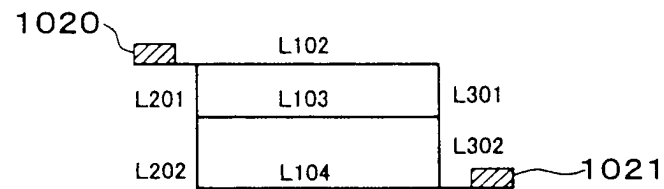


FIG. 13

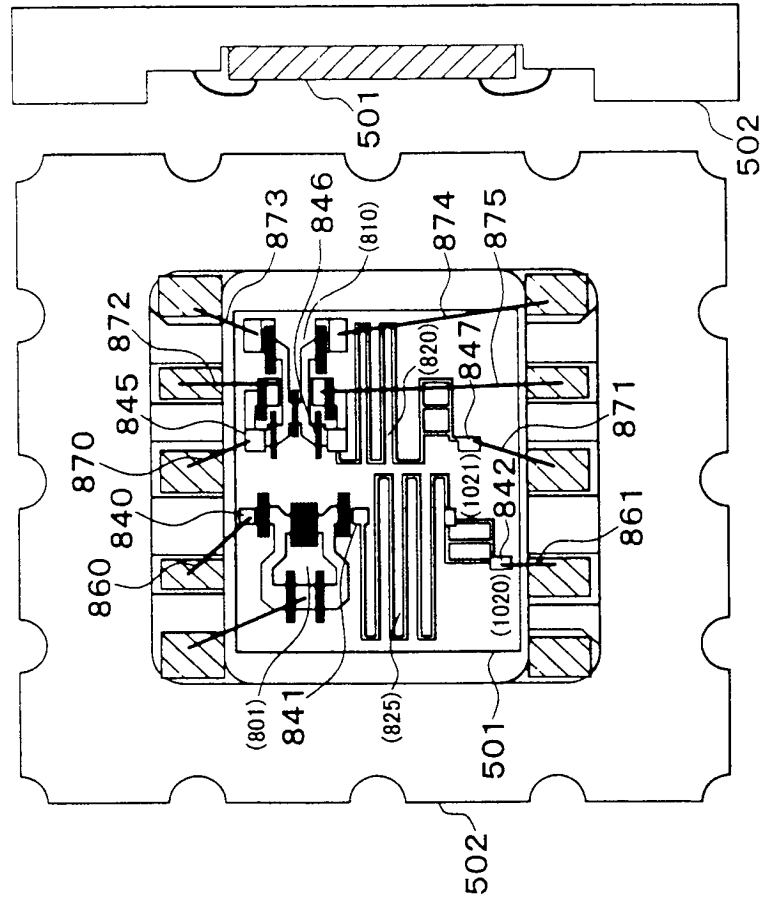


FIG. 14
(2nd EMBODIMENT)

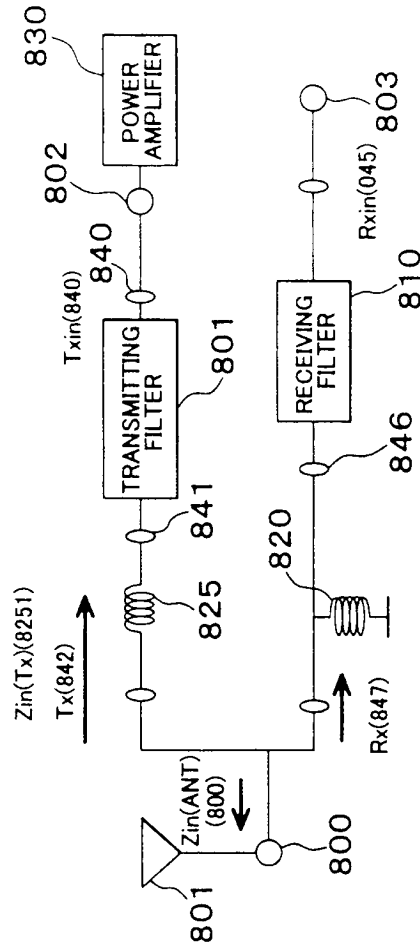


FIG. 15

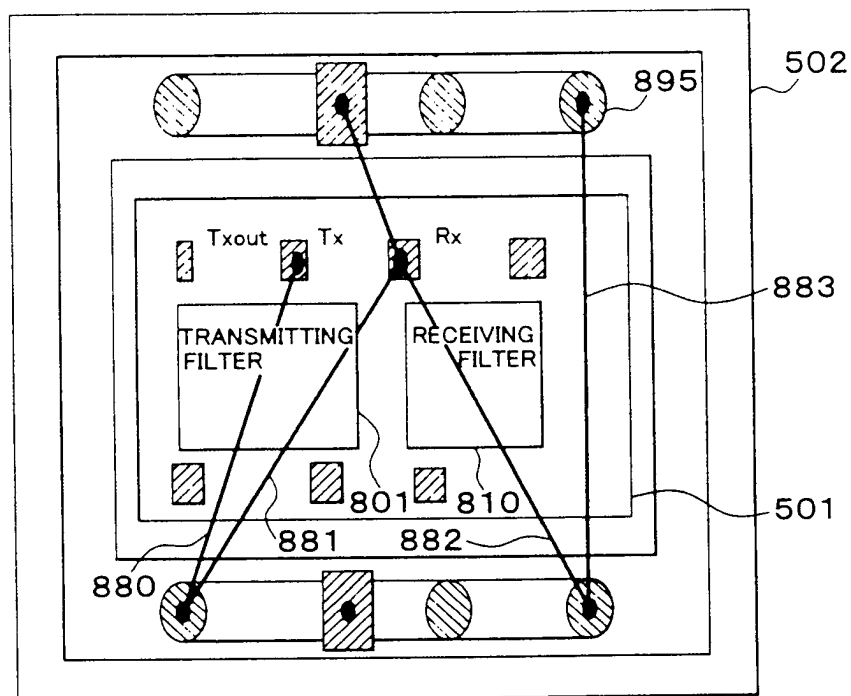


FIG. 16

ATTENUATION CHARACTERISTIC OF
 THE SAW DUPLEXER OF WIDE BAND CDMA

		TRANSMITTING FILTER										RECEIVING FILTER					
		1880	1910	1920	1940	1980	2075	2110	2170	1880	1940	1980	2025	2050	2110	2170	
BAND	Tx- BRANCHING	Rx- BRANCHING															
PRIOR ART	0	5.65(mm)	12.8	12	15	1.63	1.4	60	51	61.5	43.8	46.1	55.2	36	33.3	3.68	3.29
1 st EMBODIMENT	8.75(mm)	5.65(mm)	12.8	12	15	1.63	1.4	60	51	61.5	38.8	46	54.4	34.8	32.8	2.33	2.45
2 st EMBODIMENT	3.2(nH) SERIAL	1.8(nH) PARALLEL	12.9	12	14.8	1.62	1.94	73.8	55.6	58.5	42.4	41.6	49.7	31	31.2	3.05	2.92
	STANDARD		30	12	7	2	2	40	45	45	50	50	50	41	26	3	3

FIG. 17

ATTENUATION CHARACTERISTIC OF
 THE SAW DUPLEXER

		TRANSMITTING FILTER										RECEIVING FILTER								
		Tx- BRANCHING		Rx- BRANCHING		1880	1910	1920	1940	1980	2075	2110	2170	1880	1940	1980	2025	2050	2110	2170
BAND																				
PRIOR ART	0		5.65(mm)	12.8	12	15	1.63	1.4	60	51	61.5	43.8	46.1	55.2	36	33.3	3.10	2.80		
2 st EMBODIMENT	3.2(nH) SERIAL	1.8(nH) PARALLEL		12.9	12	14.8	1.62	1.94	73.8	55.6	58.5	42.4	41.6	49.7	31	31.2	3.05	2.78		
	STANDARD			30	12	7	2	2	40	45	45	50	50	50	41	26	3	3		

FIG. 18

SPECIFIC RESISTANCE

MATERIAL	SPECIFIC RESISTANCE	MATERIAL	SPECIFIC RESISTANCE
1(Au)	1.416	5(PLATINUM)	6.16
2(Al)	1.64	6(TUNGSTEN)	3.25
3(Cu)	1	7(TITANIUM)	47.8

FIG. 19

NO	MATERIAL	SHAPE OF INDUCTOR(Unit:cm)					INDUCT(nH)	SPECIFIC RESISTANCE	Q	RESISTANCE
		H	W	LENGTH						
1	Au	0.03	0.03	0.1	1.667	0.511	1.838	0.93369	1.416	0.117
2	Au	0.03	0.03	0.158	2.6333	0.9684	2.2462	1.80291	1.416	0.095722
3	Au	0.03	0.03	0.2395	3.9917	1.3844	2.6333	3.20388	1.416	0.08165

FIG. 20

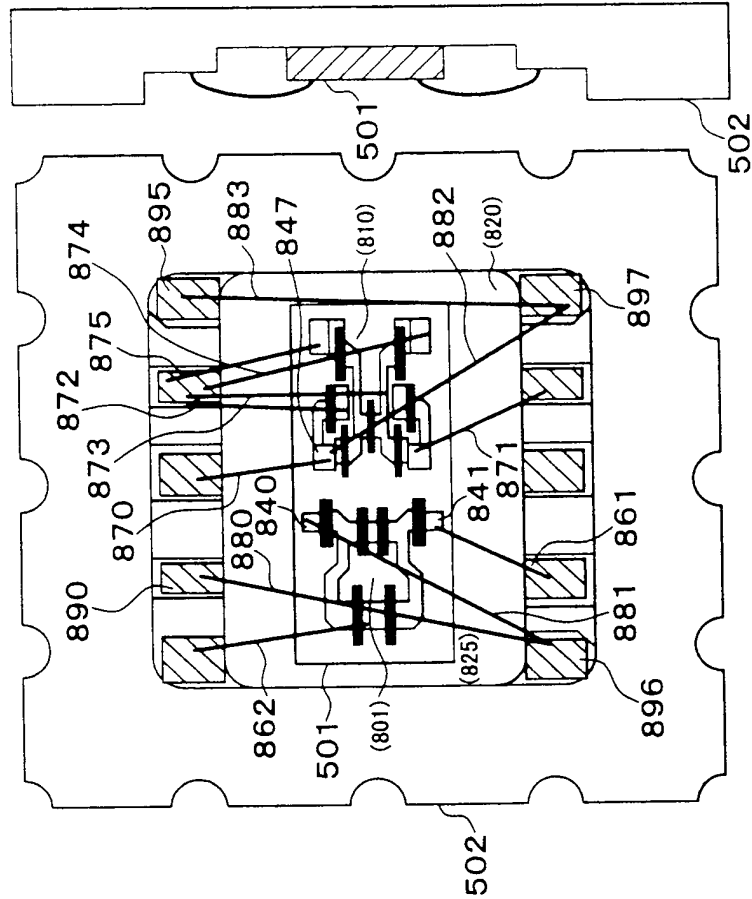


FIG. 21
(3rd EMBODIMENT)

